

Appl. No. 10/088,247  
Response dated July 8, 2004  
Reply to Non-Final Office Action of March 15, 2004

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1.-17. (Canceled)

18. (Previously Presented) A process for coloring keratin fibers comprising applying to keratin fibers

(a) at least one colorant comprising at least one dye or dye precursor, or combinations thereof;

(b) at least one enzyme having transglutaminase activity; and

(c) at least one active substance having substrate activity for the enzyme having transglutaminase activity.

19. (Previously Presented) The process of claim 18 wherein the enzyme having transglutaminase activity comprises a calcium-independent transglutaminase.

20. (Previously Presented) The process of claim 18 wherein the active substance having substrate activity comprises at least one protein or protein hydrolyzate, or combinations thereof.

21. (Previously Presented) The process of claim 20 wherein the active substance having substrate activity comprises casein, soya protein or wheat protein, or combinations thereof.

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22. (Previously Presented) The process of claim 18 wherein the active substance having substrate activity comprises a substance synthetically functionalized with an H<sub>2</sub>N-R group or an H<sub>2</sub>N-(CO)-R' group, wherein R and R' represent an unbranched C<sub>1-8</sub> alkylene group.

23. (Previously Presented) The process of claim 22 wherein the synthetically functionalized substance has at least one H<sub>2</sub>N-(CH<sub>2</sub>)<sub>4</sub> group.

24. (Previously Presented) The process of claim 22 wherein the synthetically functionalized substance has at least one H<sub>2</sub>N-(CO)-CH<sub>2</sub>-CH<sub>2</sub> group.

25. (Previously Presented) The process of claim 18 wherein the colorant is applied to the keratin fibers, and then subsequently the enzyme having transglutaminase activity and the active substance having substrate activity are applied as a single composition to the keratin fibers.

26. (Previously Presented) The process of claim 18 further comprising rinsing the enzyme having transglutaminase activity from the keratin fibers after a contact time of 3 minutes to 120 minutes.

27. (Previously Presented) The process of claim 18 further comprising pretreating the keratin fibers with at least one pretreatment agent before applying the colorant, the enzyme having transglutaminase activity and the active substance having substrate activity.

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28. (Previously Presented) The process of claim 27 wherein the pretreatment agent comprises an oxidizing agent.

29. (Previously Presented) The process of claim 27 wherein the pretreatment agent comprises a reducing agent.

30. (Previously Presented) The process of claim 27 wherein the pretreatment agent comprises an enzyme different from the enzyme having transglutaminase activity.

31. (Previously Presented) The process of claim 18 wherein the colorant, the enzyme having transglutaminase activity, and the active substance having substrate activity are applied simultaneously, or successively in any order.

32. (Previously Presented) The process of claim 18 wherein (i) the colorant and the enzyme having transglutaminase activity are applied to the keratin fibers in a single composition, (ii) the colorant and the active substance having substrate activity are applied to the keratin fibers in a single composition, or (iii) the active substance having substrate activity and the enzyme having transglutaminase activity are applied to the keratin fibers in a single composition.

33. (Previously Presented) A method for improving washing fastness of colored keratin fibers comprising applying to keratin fibers that have been, are being, or will be colored:

(a) at least one enzyme having transglutaminase activity; and

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(b) at least one active substance having substrate activity for the enzyme having transglutaminase activity.

34. (Previously Presented) A multi-part kit for coloring keratin fibers comprising:

(a) a coloring composition comprising at least one colorant and at least one active substance having substrate activity to an enzyme having transglutaminase activity; and

(b) a second composition comprising at least one enzyme having transglutaminase activity.

35. (Previously Presented) A multi-part kit for coloring keratin fibers comprising:

(a) a coloring composition comprising at least one colorant and at least one enzyme having transglutaminase activity; and

(b) a second composition comprising at least one active substance having substrate activity to the enzyme.

36. (Previously Presented) A multi-part kit for coloring keratin fibers comprising:

(a) a coloring composition comprising at least one colorant;

(b) a second composition comprising at least one active substance having substrate activity to an enzyme having transglutaminase activity; and

(c) a third composition comprising at least one enzyme having transglutaminase activity.